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09/025,856 02/19/98 SUDO

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EXAMINER

WONG, A

ART UNIT

PAPER NUMBER

2713

DATE MAILED:

01/07/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

09/025,856

Applicant(s)

SUDO, TOSHIYUKI

Examiner

Allen Wong

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2713

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-36 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claims ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☒ All b) ☐ Some * c) ☐ None of the CERTIFIED copies of the priority documents have been:
1. ☒ received.
2. ☐ received in Application No. (Series Code / Serial Number) ____.
3. ☐ received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e).

Attachment(s)

- 14) ☒ Notice of References Cited (PTO-892)
- 15) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 16) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2,5,6.
- 17) ☐ Interview Summary (PTO-413) Paper No(s) ____.
- 18) ☐ Notice of Informal Patent Application (PTO-152)
- 19) ☐ Other: _____

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-36 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Isono (5,315,377).

Regarding claims 1, 2, 12, 14-16, 18, 28-32, and 34-36, Isono discloses an information processing apparatus which can be connected to an image display apparatus (figure 2, element 46) having stereoscopic vision control means (figure 2, element 28) for controlling directivity of a stereoscopic image to allow an observer to observe stripe images of the stereoscopic image with right and left eyes of the observer, respectively, comprising:

generation means (figure 2, element 46) for generating image data including a window (col. 6, lines 33-39) in which stripe parallax images corresponding to the right and left eyes are arranged;

determination (changing) means (figure 1, element 20 and col. 5, lines 37-40) for determining whether a relative positional relationship between the window and said stereoscopic vision control means of said image display apparatus is a proper positional relationship which allows a proper stereoscopic vision (note that a computer determines

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whether a relative positional relationship between the window and said stereoscopic vision control means of said image display apparatus is a proper positional relationship); and

adjustment (changing) means for (figure 1, element 20 and col. 5, lines 37-40), when said determination means determines that the relationship is not the proper relationship which allows a proper stereoscopic vision, adjusting the relative positional relationship to allow a proper stereoscopic vision (note that a computer adjusts the relative positional relationship to allow a proper stereoscopic vision).

Regarding claims 3, 4, 7, 8, 19, 20, 23, and 24, Isono discloses that changing means moves the window by a distance corresponding to a stripe pitch of the stripe image and that the amount of movement of the window is equal to a minimum pixel pitch of said stereoscopic image display (col. 4, lines 39-57, note that Isono discusses a "variable pitch" which means that the pitch can be adjusted to accommodate one's needs).

Regarding claims 5, 9, 21, and 25, Isono discloses a horizontal stripe image (figure 5, element 28A and 46A) in the screen.

Regarding claims 6, 10, 22, and 26, Isono discloses a vertical stripe image (figure 5, element 28B and 46B) in the screen.

Regarding claims 11 and 27, Isono discloses that said changing means interchanges odd and even stripe images (figure 5, element 56') constituting the stereoscopic image displayed in the window.

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Regarding claim 13, Isono discloses that said changing means physically moves said stereoscopic vision control means (col. 7, lines 9-24).

Regarding claims 17 and 33, it is inherent that the execution period of said changing means is shortened, while the window is moved, for the changing means to execute the executed commands in an efficient manner.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen Wong whose telephone number is (703) 306-5978. The examiner can normally be reached on Mondays to Thursdays from 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Kelley can be reached on (703) 305-4856. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-5359 for regular communications and (703) 308-5359 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

AW
January 6, 2000


BRYAN TUNG
PRIMARY EXAMINER